

# **CANYONLANDS NATIONAL PARK**

## **PUBLIC USE COUNTING AND REPORTING INSTRUCTIONS**

Following are detailed instructions for collecting and reporting data to be entered on Form 10-157, Revised, Monthly Public Use Report by Canyonlands National Park. These instructions are effective the date of issuance and will continue in effect unless changed by amendment or by memorandum from the Socio-Economic Studies Division to the superintendent approving a requested change.

Each item below describes the procedures to be followed in collecting public use data and summarizing the various elements of those data for entry on the corresponding line on the 10-157, Monthly Public Use Report.

### **Recreation Visits**

#### **MAZE DISTRICT**

1. A piezo-electric traffic counter is located on the road leading to the Maze Overlook. The traffic count is divided by two to adjust for vehicles entering/exiting the area. The adjusted traffic count is multiplied by the persons-per-vehicle (PPV) multiplier (see Table 1).
2. A piezo-electric traffic counter is located on the road leading to the Land of Standing Rocks. The traffic count is divided by two to adjust for vehicles entering/exiting the area. The adjusted traffic count is multiplied by the PPV multiplier (see Table 1).
3. A piezo-electric traffic counter is located on the road leading to the west side of Horseshoe Canyon. The traffic count is divided by two to adjust for vehicles entering/exiting the area. The adjusted traffic count is multiplied by the PPV multiplier (see Table 1).

#### **ISLAND IN THE SKY DISTRICT**

1. An inductive loop traffic counter is located on the entrance lane to the Island Proper. The traffic count is reduced for the number of buses and nonreportable vehicles (see Table 2). The reduced traffic count is multiplied by the PPV multiplier (see Table 2).
2. The number of bus visitors.
3. The estimated number of bicyclists and motorcyclists on the Mesa-Top (see Table 2).

August 3, 1993

4. Inductive loop traffic counters are on the east (1/4 mile east of Potash road intersection) and on the west (1/4 mile south of park boundary) entrances of the White Rim Trail. The traffic counts are summed together and divided by two to adjust for vehicles entering/exiting the trail from either direction. The adjusted traffic count is reduced for the number of nonreportable vehicles (32 per month, March through October). The reduced traffic count is multiplied by the PPV multiplier (see Table 2).
5. The estimated number of bicyclists and motorcyclists on the White Rim Trail (see Table 2).
6. An inductive loop traffic counter is located on the top of Shaffer Trail. The reduced traffic count is divided by two to adjust for vehicles entering/exiting the trail. The adjusted traffic count is reduced for the number of nonreportable vehicles (24 per month, March through October). The adjusted traffic count is multiplied by the PPV multiplier (see Table 2).
7. The number of private and commercial bicyclist.

#### **NEEDLES DISTRICT**

1. An inductive loop traffic counter is located on the westbound lane to Needles Proper (Station 1302 Lane 2). The traffic count is reduced by the number of buses. The reduced traffic count is multiplied by the PPV multiplier of 2.4 from November through February, or 2.8 from March through October.
2. The number of visitors to Lavender and Davis Canyons. These numbers are obtained from permits and registration boxes.
3. The number of bus passengers.

#### **RIVER DISTRICT**

1. The number of commercial river users on Cataract Canyon.
2. The number of private river users on Cataract Canyon.
3. The number of commercial river users on Calm Water (Day Use Only).
4. The number of private river users on Calm Water.

**Table 1**  
**MAZE DISTRICT**  
**Average PPV Multipliers by Month and Location**

MONTH	AVERAGE PPV MULTIPLIERS BY LOCATION		
	Maze Overlook	Standing Rocks	Horseshoe Canyon
JANUARY	2.0	2.2	2.5
FEBRUARY	2.0	2.2	2.5
MARCH	2.5	2.2	2.5
APRIL	2.5	2.5	2.5
MAY	2.2	2.5	2.5
JUNE	2.5	2.5	2.5
JULY	2.2	2.2	2.5
AUGUST	2.2	2.2	2.5
SEPTEMBER	2.2	2.2	2.5
OCTOBER	2.0	2.2	2.5
NOVEMBER	2.0	2.2	2.5
DECEMBER	2.0	2.2	2.5

**Table 2**  
**ISLAND IN THE SKY DISTRICT**  
**Average PPV Multipliers, Nonreportable Vehicles, and Mesa Top Bicyclists by Month and Location**

MONTH	AVERAGE PPV MULTIPLIERS BY LOCATION		Island Proper	White Rim Day Use	Mesa Top Day Use
	Island Proper	White Rim/Shaffer Trail	Nonreportable Vehicles	Bicyclists	Bicyclists
JANUARY	2.2	2.0	20	0	0
FEBRUARY	2.1	2.2	20	30	10
MARCH	2.6	2.0	60	135	45
APRIL	2.6	2.0	150	233	77
MAY	2.5	2.0	150	233	77
JUNE	2.6	2.0	120	135	45
JULY	2.7	2.2	120	90	30
AUGUST	2.7	2.3	90	90	30
SEPTEMBER	2.4	2.3	150	135	45
OCTOBER	2.4	2.4	150	310	77
NOVEMBER	2.2	2.0	60	135	45

DECEMBER	2.2	2.0	20	30	10
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## Recreation Visitor Hours

Recreation visitor hours are the sum of the subtotals of each of the locations/activities listed in Tables 4-7. Each subtotal is the result of multiplying the number of visitors associated with that location/activity by its length-of-stay multiplier.

**Table 3**  
**MAZE DISTRICT**  
**Average Length-of-Stay Multipliers (in hours) by Month and Location**

MONTH	AVERAGE LENGTH-OF-STAY BY LOCATION		
	Maze Overlook	Standing Rocks	Horseshoe Canyon
JANUARY	40	40	5
FEBRUARY	40	40	5
MARCH	60	40	5
APRIL	40	60	5
MAY	40	40	5
JUNE	40	40	5
JULY	40	40	5
AUGUST	40	40	5
SEPTEMBER	40	40	5
OCTOBER	60	40	5
NOVEMBER	40	40	5
DECEMBER	40	40	5

**Table 4**  
**ISLAND IN THE SKY DISTRICT**  
**Average Length-of-Stay Multipliers (in hours) by Day Use/Overnight Use**

CATEGORY		AVERAGE LENGTH-OF-STAY
Day Use	Island Proper	3.5
	White Rim	6.0
	Shafer Trail	1.0
Overnight Use	Island (NPS Campgrounds)	20.5 per overnight stay
	White Rim (NPS)	23.0 per overnight stay

	Backcountry)	
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**Table 5**  
**NEEDLES DISTRICT**  
**Average Length-of-Stay Multipliers (in hours) by Day Use/Overnight Use**

CATEGORY	AVERAGE LENGTH-OF-STAY
Day Use	6
Overnight Use	20 Hours Per Overnight Stay

**Table 6**  
**RIVER DISTRICT**  
**Average Length-of-Stay Multipliers (in hours) by Day Use/Overnight Use**

CATEGORY		AVERAGE LENGTH-OF-STAY
Commercial Calm Water Day Use		6
Overnight Use	Cataract Canyon (Commercial Use)	28 Hours Per Overnight Stay
	Cataract Canyon (Private Use)	24 Hours Per Overnight Stay
	Calm Water (Private Use)	26 Hours Per Overnight Stay

#### Overnight Stays

#### MAZE DISTRICT

NPS Backcountry - Miscellaneous Sites

The number of backcountry overnight stays are determined by multiplying the number of visitors entering the Maze area and Standing Rocks area by the average number of nights spent (see Table 7).

**Table 7**  
**MAZE DISTRICT**  
**Average Number of Overnights Spent by Location and by Month**

LOCATION	MONTH	AVERAGE # OF NIGHTS
	October and March	3

Maze Area		
	All other Months	2
Standing Rocks Area	April	3
	All other Months	2

## ISLAND IN THE SKY DISTRICT

NPS Campgrounds - Willow Flat Campground

The number of tent and RV overnight stays are estimated by month in Table 8.

NPS Backcountry Sites - Lathrop Canyon, Murphy Hogback, Potato Bottom, Gooseberry, Hardscrabble, Candlestick, Upheaval Bottom, White Crack, Shafer, Taylor, Syncline Valley, Upheaval Canyon, Taylor Canyon, Monument Basin, Murphy Range, Alcove Spring, Buck Canyon, Island Undifferentiated, Gooseberry Canyon, Holean Spring Basin, Murphy Trail, Potato Bottom Basin, Confluence Triangle, Lathrop Trail, Shafer Trail, and Dogleg Canyon

The number of backcountry overnight stays at these locations are estimated by month in Table 8.

**Table 8**  
**ISLAND IN THE SKY DISTRICT**  
**Average Number of Overnight Stays by Type and Month**

MONTH	AVERAGE NUMBER OF OVERNIGHT STAYS		
	Willow Flat Campground		NPS Backcountry
	TENTS	RV'S	
JANUARY	25	21	8
FEBRUARY	31	63	33
MARCH	472	167	1013
APRIL	653	268	2193
MAY	588	291	2624
JUNE	561	478	1038
JULY	478	196	356
AUGUST	659	236	355
SEPTEMBER	561	323	816
OCTOBER	548	351	1957
NOVEMBER	254	189	919

DECEMBER	61	41	114
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## NEEDLES DISTRICT

NPS Campgrounds - Squaw Flat Campground

The number of tent or RV sites occupied is multiplied by the persons-per-site multiplier of 2.4 from November through February, or 2.8 from March through October.

NPS Backcountry - Miscellaneous sites

The number of backcountry overnight stays as determined by backcountry permits.

NPS Miscellaneous - Squaw Flat Group Camping Area

The number of overnight stays at group camping areas.

## RIVER DISTRICT

NPS Backcountry - Miscellaneous sites on the Green and Colorado Rivers

1. The number of commercial users on Cataract Canyon is multiplied by the average number of nights stayed multiplier of 3.
2. The number of private users on Cataract Canyon is multiplied by the average number of nights stayed multiplier of 4.
3. The number of private users on Calm Water is multiplied by the average number of nights stayed multiplier of 5.